

<u> THIR UNITED SIMILES OF AMERICA</u>

TO MILTO WHOM THESE: PRESENTS SHALL COME;

Hirginin Jech Intellectual Properties, Inc.

MICCOLS, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY THARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE LIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR ORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSE, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROPAGATION ACT. IN THE UNITED STATES SEED OF THIS VARIETY IN STATES SEED OF THIS VARIETY AND ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER.

PEANUT

'Wilson'

In Testimonn Macrest, I have hereunto set my hand and caused the seal of the Hunt Unriety Protection Office to be affixed at the City of Washington, D.C. this fifth day of June, in the

test:

Commissioner

Plant Variety Protection Office

Accidentation Services

ET SEQ.)

Ariculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential unit continued in the continued in the

Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? YES NO Filing of Mail to the Poort Variety State of the United If YES, SPECIFY THE IT FOLIADATION FOR THE POOR TO STATE OF THE POOR THE POO	(Instructions and information collection burden statement on rev	IF ICATE (7 U.S.C. 2421 erse)). Information is held confidentia	piant variety protection certificate is to be in white certificate is issued (7 U.S.C. 2426).	ssued
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470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0s. Replaces STD-470 (02-99) which is obsolete. (See reverse for instructions and information collection burger statements)	Executive Vice President 6/18/02			DATE	·
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GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), ALL of the following items must be received in the PVPO: (1) Completed application form signed by the owner: (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfiled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 500, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. DO NOT use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office Telephone: (301) 504-5518 FAX: (301) 504-5291

200200200

ITEM

Homepage: http://www.ams.usda.gov/science/pvpo/pvp.htm

18a. Give:

- (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method;
- (2) the details of subsequent stages of selection and multiplication;
- (3) evidence of uniformity and stability; and
- (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
 - (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
- 19. If "Yes" is specified (seed of this variety be sold by variety name only, as a class of certified seed), the applicant MAY NOT reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See Regulations and Rules of Practice, Section 97.103).
- 22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
- 23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.
- 21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)
- 22. CONTINUED FROM FRONT (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)

Seed being produced in 2002 and will be offered for sale to the public in 2003 and after.

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center-East, Beltsville, MD 20705. Telephone: (301) 504-8089. http://www.ams.usda.gov/isg/seed/is-sd.htm

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The raild OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is astimated to average 1.4 hours per response, including the time for reviewing astructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or market The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the pass of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marks from the pass of the program of th £T-470 (04-01) designed by the Plant Variety Protection Office with WordPerfect 6.0a. Replaces \$TD-470 (02-99) which is obsolete.

EXHIBIT A. ORIGIN AND BREEDING HISTORY 200200200

Wilson was developed from a cross of the breeding line VA 781621 and a plant introduction PI 476823. The pedigree of VA 781621 is PI 295216 (from Israel) x NC-Fla. 14. PI 476823 is a cultivar from China with resistance to leaf spot.

The breeding method used was a modified pedigree procedure followed by mass selection. From this cross, made in the greenhouse in 1988, the F_1 generation was grown for field selection in 1989. The F_2 seed were grown in a single field plot in 1990 and a single plant selection was made. The F_1 and F_2 were single seed selections. All seed were selected but grown separately. Seed of a single plant selection were planted in a single F_3 field plot in 1991 to produce the F_4 generation. The F_3 plants were bulked and the F_4 plants were grown in a two-rep yield test in 1992.

The following plant selection criteria were used in developing the new variety. Single plant selection in the F1 and F2 generations was based upon visual assessment of plant type, pod number, pod size and pod shape, and hull color and brightness. Once replicated testing began in the F5 and F6 generations, then selection was based upon yield, pod and seed characteristics from replicated trials. Disease ratings in replicated trials began in the F9 generation and continued through the F13 generation.

Yield tests were done in 1993 and 1994 using F_5 and F_6 seed. In the F_5 and F_6 generations, plant growth habit, pod and kernel size and other characteristics appeared uniform; however, seed testa color was mostly pink to light pink with some seeds having a tan-colored testa. All seed from generations 5 and 6 were used. Seeds with pink testa were selected in the F_7 generation and bulked in 1995. Further testing revealed some tan testa still present. Individual plant selections for pink testa color were made in the F_8 and F_9 generation in 1996 and 1997. Approximately 50% of the seeds were selected with pink testa color from generations 7, 8 and 9. The F_{10} plants all had pink testa and 100 percent were selected and bulked for seed production.

The seed of variety Wilson (100% selected) have continued to be bulked and selfed to the present F_{16} generation in 2004. Thus, Wilson has been observed for at least seven generations of increase and is stable and uniform. Less than 0.25% variants and no off-types have been observed. The types of variants observed within this group of less than 0.25% were kernels with tan (5YR 7/4) seed testa color; whereas the seed testa color of Wilson is light pink to pink (10R 7/6).

The variety Wilson was evaluated as VT 940419P in Breeder Yield Tests, the Virginia-North Carolina Peanut Variety and Quality Evaluation Program, Uniform Peanut Performance Test, Virginia's Cooperative Extension Yield Tests, and Disease Management Tests.

EXHIBIT B. STATEMENT OF DISTINCTNESS

200200200

The following is a statement of distinctness for a new and distinct cultivar of *Arachis hypogaea* named Wilson. All colors cited herein refer to the Munsell Book of Color (Munsell Color Company, Baltimore, MD).

Wilson is a large-seeded Virginia-type peanut, which is most similar to the VA 98R cultivar. Wilson has a decumbent growth habit while the growth habit of VA 98R is prostrate. The main stem height of Wilson is taller than VA 98R (Table 1). Seed testa color of VA 98R is pink (10R 6/8), whereas testa color of Wilson is light pink to pink (10R 7/6). Pod characteristics of Wilson, such as shape, size, and bright color, make it ideal for the in-shell trade.

The percentage of total meat content for Wilson is lower than for VA 98R (Table 2). This means it has a thicker hull with less total kernel percentage than the VA 98R cultivar resulting in a lower mill outturn.

Analysis of oil content shows Wilson to have a higher percentage of oleic acid (Table 3) and a lower percentage of linoleic acid (Table 4) than VA 98R. In addition, Wilson has a lower iodine value (Table 5) than VA 98R. These data indicate that Wilson will have a longer shelf life, and products made from Wilson will be more stable.

In comparing Wilson to the peanut variety Early Bunch, one of the most distinguishing characteristics is that Wilson has a decumbent growth habit while Early Bunch has an erect bunch growth habit. Additional characteristics distinguishing Wilson from the two peanut varieties, Early Bunch and Perry, are presented in Table 6. For example, Table 6 shows that Wilson is later to mature as compared with Early Bunch but earlier than Perry. Further, Wilson is shown to have a higher ratio of oleic to linoleic acid with a lower iodine value than either Early Bunch or Perry.

REPRODUCE LOCALLY. Include form number and date on all reproductions

Form Approved OMB NO 0581-0055

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 1.4 hours per response, including the time for reviewing instructions. searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

> U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY Peanut (Arachis hypogaea) NAME OF APPLICANT (S) TEMPORARY OR EXPERIMENTAL DESIGNATION VARIETY NAME R. Walton Mozingo (Developer) Wilson ADDRESS (Street and No. or RD No., City, State, Zip Code, and Country) FOR OFFICIALIUSE ONLY 200200200 Virginia Tech. Tidewater AREC 6321 Holland Road Suffolk, VA 23437 PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box) when a number is either 99 or less or 9 or less. 1. BOTANICAL TYPE: Flowering on the Main Stem: 1 = Absent 2 = Present Branching Pattern: 1 = Alternate - Pairs of vegetative and reproductive branches (Virginia) 2 = Sequential - Continuous reproductive branches (Valencia-Spanish) 3 = Other (Specify) 2. PLANT: 1 = Prostrate (Florunner) 2 = Decumbent (NC-5) 1 = Sparse (Valencia) 2 = Moderate (Starr) 2 Habit: Branching: 2 = Semi-Erect (Florispan) 4 = Erect (Starr) 3 = Profuse (Florunner) 3. MATURITY: 1 Region: 1 = Virginia, North Carolina 2 = Southeast United States 3 = Southwest United States 4 = Other4 5 1 Number of Days to Maturity Number of Days Earlier Than 1 = Starr 2 = Florunner 3 = Florigiant 4 = Virginia 61R 5 = NC-2Number of Days Later Than 6 = NC-57 = Southeastern Runner 56-15 NC-V11 8 = Other (Specify) 4. LEAVES: 2 Color at 60 Days (Nickerson Color Designation ____ 1=Light Green (10gy 6/9) 2= Medium Green (2.5G 5/9) 6 1 mm Leaflet Length (Basal Leaflet of the Youngest Fully Opened Leaf) 3=Dark green (5G 4/7) 4= Other (Specify) Leaflet Length/Width Ratio

5. POD (Average	for 20 pods at matu	rity):								
" mn	1 Length				nm Diam	eter		2002	0 (1200
5 4 3 0	KG./HA. Pod	Yield						sees On Co =	m € 6	y () (
%les	ss Than		1 = Starr			2	= Florunner 3	- Eloriaiont		
5 7	re Than	8	4 = Virginia 6 = NC-5 8 = Other (S		7 = Sou NC-V	5 utheastern Runne	= NC-2	Florigiant		
7 7	Fancy Size: (% ridin	a 12 46 mm 24/	'							
2	mber of Seeds per F						E = 0.0 4			
<u> </u>					=3		5 = 2-3-4	0 5 (0)		
T T			(Virginia 56R, Ar			2 = Medium (Virg	inia 61K)	3 = Deep (Star	T)	
2		Glabrous (Florur	,	oubescent		,				
Bea	1K: 1 =	Absent	2 = 1	nconspicu	ous	3 = Pronounce	d 			
6. SEED (Mature,	cured but not aged)	:								
0 5 Coa	t Color: 6 =	Red	2 = Cream 7 = Purple		n (Starr) rk Purple			= Pink (Florigiant)		
1		= Other (Specify)								
4			2 = Undented	1		niform Color	2 = Blemishe			
Sha		Spheriodal (Stan Cylindrical-taper		Broad (Flo 5 = Cylind	orunner) Irical Blu	nt Ends (NC-2)	3 = Elongate 6 = Other (S)	d-Slender (Dixie I pecify)	Runner)	
1 8 mm	Length 0 9	mm Width	8 2 Grams	per 1000 S	Seeds (8	% Moisture)				
									·····	
7. DISEASE RESI			[_]			3 = Moderately R	tesistant, 4 = Re	esistant)		
	Stem Rot	0 Rust		Early Leaf	f Spot	0 Virus X				
Southern	Leaf Spot	0 Mosaic	0	Pod Rot C	Complex	Other (S	Specify)			_
8. INSECT RESIST	. INSECT RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Resistant)									
1 Thrips										
1 Southern	Southern Corn Rootworm Description: Descri									
	Southern Corn Rootworm [Lesser Cornstalk Borer L Aphid L Other (Specify)									
9. COMPARISON	OF SUBMITTED VA	RIETY WITH ON	IE OR MORE SIM	ILAR VA	RIETIES	:	T		i M	AIN STEM
VARIETY	OIL* (%)	PROTIEN* (%)	LINOLEIC ACID RATIO	IODI NUMI		SHELLING (%)	SMK** (%)	ELK+ (%)		HEIGHT (CM)
Submitted	48.08	-	2.11	93.43		71.0	66.7	34.5	33	<i>i</i>
Similar	48.49	-	1.76	95.15		70.7	66.8	34.3	34	
Name of Similar Variety	VA 98R		VA-C 92R	VA-C	92R	Gregory	Gregory	NC-V11	N	C 7
* From Sound Matu	re Kernels	** Sound Mature	e Kernels	+ E	Extra Lar	ge Kernels				
10. INDICATE A V	ARIETY WHICH MC	ST CLOSELY R	ESEMBLES THA	TSUBMIT	TTED:					
	ACTER		VARIETY			CHARACT	ER	V	ARIETY	***
Pod Color	- to de desirable and	VA 98R			Seedli	ng Vigor	-	VA 98R		
Seed Dormancy	- Charles and the control of the con	VA 98R				nickness		VA-C 92R		<u></u>
Seed Size		VA 98R			Leaf C			VA-C 92R		
11 COMMENTS	/Additional descripti	on or algeification			•			1	····	

									١	Plant holdht (in	(12)			
			Seed	and the best of the second contract of the se	Plants			1	-				1-1 bitrament menses and an article of the party	100000000000000000000000000000000000000
-	mmi											old error		
	*****	•	rianted		Measured					Error mean		ō		
Year Location	Pla	Plant Date	per plot Data	Data Taken	per plot	VA 98R	Wilson	Difference Reps		square	Fron	difference	+	= 6
1999 Martin Co., NC		12-May	240	1st wk Aug.	4	12.13	14.13	000	4	0.691664	777	2000	2 4000	77.00
Northampton Co., NC		7-May	240	1st wk Aug.	4	28.0	11 63	1 78		0.504700	7 7 F) (0.4000	0.00
Suffolk VA		, V 40.1	040	4-4			3	2	+	0.001102	144	0.52	3.4522	0.0159
VA VIOLEN		o-Iviay		IS! WK AUG.	4	10.95	13.73	2.78	4	0.762078	144	0.62	4.5036	0.0018
		••••								and the state of t	Habranananan	Particular and Advisor and Adv		- The state of the
2000 Martin Co., NC		15-May	240	1st wk Aug	4	12.38	15.73	20.0	-	4 000000	7 7 7	1	0010	
No sotomorphism	denament		()	The second secon		200	5	- Anna Anna Anna Anna Anna Anna Anna Ann	†	000000.1	74	./.c	4.6500	0.0013
NOTIFIAMIDION CO., INC.		9-May	240	1st wk Aug.	4	7.80	10.55	2.75	4	1.225590	144	0.78	35130	0.0141
Suffolk, VA		11-May	240	1st wk Aug.	4	9.75	12.50	275	4	1 125200	177	0.75	9 6 6 6 9	10.0
			Q4074	Herimannian management of the contract of the		The state of the s		i	-		<u> </u>	5.5	0.0000	0.0.0
2003 Martin Co. N.C.		4.0 Max	-	A at mil. A	,									
FOOD INITIAL CO., INC	-	l ≎-lVlay	747	IST WK AUG.	4	15.75	19.17	3.42	4	1.595010	33	68 0	3 8297	0.0077
Northampton Co., NC		16-May	240	1st wk Aug.	4	12.10	14.02	1 92	7	0.781887	135	0.63	0.010	0,000
Suffolk, VA	,-	12-May	240	1st wk Aug	4	11 85	15.07	CV O		0.00000	100	200	20,000	0.0017
	-			.65		3	5.5	24.0	4	2.33/8/0	2	1.22	2.7934	0.0503

Pair-wise comparisons were done using the t-test.

										% Total Meat	eat			
			Seed		Grade							Sto error		
			Planted		Sample		:		mmin	Error mean		ţ		
Year	Location	Plant Date	per plot	Plant Date per plot Harvest Date	Size	VA 98R	Wilson	Difference	Reps	square	Error of	diff	+	<u>=</u>
200	2001 Martin Co., NC	7-May	/ 240	2-Oct	3 lbs.	75.05	70.20		2	0.904866	48	0.95	-5 09R6	00000
and the second s	Northampton Co., NC		/ 240	27-Sep	3 lbs.	69.90	66.45	-3.45	2	1.450700	48	1.20	-2 8644	0.0000
	Southampton Co., NC		/ 240	26-Sep	3 lbs.	74.95	71.85	-3.10	c ₁	0.360980	48	090	1598	0.000
	Suffolk, VA	9-Мау	/ 240	28-Sep	3 lbs.	70.90	67,45	-3.45	0	2.408900	48	1.55	-2.2228	0.0310
Total Carlo de Carlo	ten ja da sayay ya sayanin i sanasan i kasasak kasasak ka ——ya fa nasasan i i kasasan ka sa da sa			arov									A STATE OF THE PERSON NAMED IN COLUMN NAMED IN	man the Management on perfect your measurement and account on the
2002	2002 Martin Co., NC		/ 240	2-Oct	3 lbs.	72.50	68.25	-4.25	2	1.193540	48	1 09	-3 8902	0.0003
	Northampton Co., NC	2-May	/ 240	25-Sep	3 lbs.	65.00	61.00	-4.00	2	1.522130	48	1 23	-3 0/00	00000
	Southampton Co., NC	The second	/ 240	30-Sep	3 lbs.	73.60	69.55	-4 05	٥	1 090960	48	21.	2 877E	0.000
	Suffolk, VA	9-May	/ 240	23-Sep	3 lbs.	71.15	66.30	-4.85	N CV	1.143150	48	1 07	-4 5362	0.000
						-		The state of the s	-	manuscratter of the second sec			1000	0000
2003	2003 Martin Co., NC	13-May	/ 240	6-Oct	3 lbs.	76.25	72.40	-3.85	N	0.451690	44	0.67	-5 7985	0.000001
	Northampton Co., NC		/ 240	6-Oct	3 lbs.	74.05	71.10	-2.95	2	0.599701	44	0.77	3 8097	0.00001
	Southampton Co., NC		/ 240	7-Oct	3 lbs.	72.40	69.85	-2.55	2	0.832292	44	0.91	-2 7951	0.000469
	Suffolk, VA	12-May	740	3-Oct	3 hs	71 95	89 10	28.0	ç	0.007004	4.4		- 000	0.00

Pair-wise comparisons were done using the t-test.

										% Olaic Acid	7			
	······································		Seed Planted									Std error		
Year	Location	Plant Date			larvest Date Sample Size	VA 98R.	Wilson	Difference	Reps	Error mean square	Error df	ot difference		<u>=</u> /
													,	-
2000	2000 Martin Co., NC	15-May	240	29-Sep	30 g	50.07	55.06	4.99	2	0.757273	48	787	5 7040	0000000
TO THE PERSON NAMED IN COLUMN	Northampton Co., NC	9-May		27-Sep		48.84	52.92	4.08	١٥	0.501663	2 4	200	7607	0.000000
***************************************	Southampton Co., NC	5-May	240	18-Sep		48.50	56.02	7.52	10	0.781530	2 4	000	0.7004	0.0000000
	Suffolk, VA	11-May	240	30-Sep		47.40	53.26	5.86	2	0.628448	84	0.00	7.3920	0.000000
		- No Nagar					**************************************		Carry Charles and Carry Control of the Control of t	***************************************		, , , , , , , , , , , , , , , , , , ,	1	20000
2001	2001 Martin Co., NC	7-May	240	2-Oct	30 g	50.64	57.60	6.96		0.616618	48	0.70	PC30 0	0000000
Addition to the reservence	Northampton Co., NC	3-May	240	27-Sep		46.85	53.33	6.48	1	0.00000	φ. α.	87.5	9.000.0	0.0000000
	Southampton Co., NC	2-May	240	26-Sen		48 83	55.67	788	1 0	100000	2 9	200.	00100	0.000000
	Suffolk VA	O.Nav		2000	and House		0.00	+000	7	0.004 00/	δ	0.76	8.9493	0.0000000.0
	TA CALL	3-IVIAY		dec-oz	30 g	47.64	52.59	4.95	7	0.882579	48	0.94	5.2690	0.00000321
2002	2002 Marin Co. NO.	7.63		***************************************		William Willia	terteramental control property of the control of th		THE REAL PROPERTY.					der Publication of the state of
200	Martin CO., INC	/-way		2-Cot	30 g	50.01	55.55	5.54	۵,	1.149190	48	1.07	5.1679	0.00000454
paragraph paragraph and	Normampton Co., NC	2-May	(c)	25-Sep	90 g	50.74	56.85	6.11	2	1.740930	48	132	4 6307	0.0000000
L. C. H. T.	Southampton Co., NC	13-May	240	30-Sep	30 g	49.10	54.99	5.89	2	1.058650	48	103	5 701E	0.00000000
	Suffolk, VA	9-Мау	240	23-Sep	30 g	49.08	54.22	5.14	2	0.942810	48	26.0	5 2936	0.0000000
	minimum de adoption em mananta de programme manadante l'opera	7							-		- Advisor	was a second sec		20000
2003	2003 Martin Co., NC	13-May	240	6-Oct	30 g	49.61	54.76	5,15	2	0.925459	44	0.98	K 2524	000000000
	Northampton Co., NC	16-May	240	6-Oct	30 g	48.04	54.09	6.05	2	0 831554	44	50.0	נייים מ	0.0000000
The state of the s	Southampton Co., NC	15-May	240	7-Oct	30 g	48.63	54.12	5.49	2	0.883545	44	+	0.00	0.0000004
	Suffolk, VA	12-May	240	3-Oct	30 a	48 99	52.35	3.36		0.00000	***	1	0.0400	0.0000000

Pair-wise comparisons were done using the t-test.

										% I incleic Acid	Arid			
			Seed				,					Std error		
>		i	<u>ם</u>							Error mean	•	o		
Year	Location	Plant Date	Blot	Harvest Date	Sample Size	VA 98R	Wilson	Difference	Reps	square	Error df	diffe	+	P>#
2000	2000 Martin Co MC	1	Ì	0 00		A CONTRACTOR OF THE PERSON OF	Personal management of the second							
3	Marilli Co., NO			des-sz	30 g	31.15	26.01	-5.14	C)	0.407079	48	0.64	-8.05608	0.000000.0
***************************************	Northampton Co., NC			27-Sep	30 g	31.94	27.79	-4.15	2	0.344254	48	0.59	-7 07308	
	Southampton Co., NC		7 240	18-Sep	30 g	32.38	25.25	-7.13	N	0.520014	48	0.72	022.3 0788.6-	
manufacture of each of each of the second	Suffolk, VA	11-May	y 240	30-Sep	30 g	33.26	27.82	-5.44	8	0.452352	48	0.67	-8.08836	4
	The second secon	***************************************	- House	7								1		è
2001	2001 Martin Co., NC		/ 240	2-Oct	30 g	30.34	23.86	-6.48	2	0.467600	48	0.68	-9 47628	0000000
W/1, 717171171171	Northampton Co., NC	THE PERSON NAMED IN	/ 240	27-Sep	30 g	33.01	26.99	-6.02	2	0.785268	48	0.89	8 79371	
	Southampton Co., NC	2-May	/ 240	26-Sep	30 a	32.15	25.54	-8.61	٥	0.428182	2 4	000	100707	
	Suffolk, VA	9-May	/ 240	28-Sep	30 a	32.93	28 73	4 20	10	0.125102	0	20.0	4 00030	
		THE COLUMN TWO IS NOT	**************************************		- Contraction of the Contraction				1	200	2	5.0	4.30273	0.000000
2002	2002 Martin Co., NC	7-May	, 240	2-0ct	30 g	30.90	25.92	86.7-	-	1 182940	ΔV	00 +	704 10	000000
	Northampton Co., NC			25-Sepi	30 d	29.86	23.54	55.6	10	1 387400	}	1.00	-4.01/8/	0.0000282
	Southampton Co., NC	13-May	240	30-Sep	30 g	32.27	26.92	35. 25.	10	0 918386	5 0	90 0	70.0007	
	Suffolk, VA	9-May	/ 240	23-Sepi	30 g	30,55	25.67	-4.88	10	1 279220	2 0	00'0	4 24 467	
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2003	2003 Martin Co., NC	13-May	/ 240	6-Oct	30 g	31.58	26.68	4.90	2	0.680109	44	280	-5 9/16E	7000000
***************************************	Northampton Co., NC			6-Oct	30 g	33.16	27.15	-6.01	2	0.431330	44	0.66	-9 15100	-9 15102 0.0000004
The state of the s	Southampton Co., NC			7-Oct	30 g	32.40	27.44	-4.96	2	0.660434	44	0.81	-6.10333	-6.10333 0.0000002
	Suffolk, VA	12-May	/ 240	3-Oct	30 g	31.40	27.96	-3.44	0	0 530318	44	0.73	07207	4 72270 0 0000000

Pair-wise comparisons were done using the t-test.

Year Location Pla 2000 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2001 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Suffolk, VA Southampton Co., NC Northampton Co., NC Southampton Co., NC Southampton Co., NC	Plant Date 15-May 9-May 5-May 11-May	Seed Planted per plot			3	August 1		•					
0, NO		Planted per plot							Error		Std error		
0, NO	15-May 9-May 5-May 11-May	blot							mean		of		
2000 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2001 Martin Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Suffolk, VA Southampton Co., NC Northampton Co., NC Southampton Co., NC	15-May 9-May 5-May 11-May		Harvest Date	Sample Size	VA 98R	Wilson	Difference	Reps	square	Error df	difference	+	P> t
Northampton Co., NC Southampton Co., NC Suffolk, VA 2001 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co., NC	9-May 5-May 11-May	240	naS-86	30.0	90 70	20 00	007	c	700707	4			
Southampton Co., NC Suffolk, VA 2001 Martin Co., NC Southampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co., NC	5-May 11-May	0 0	7000	8 6	0000	00.00	70.0	7	0.022030	48	0.72	-6.3898	0.000
Southampton Co., NC Suffolk, VA 2001 Martin Co., NC Northampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co., NC Southampton Co., NC	5-May 11-May	240	des-72	30 g	98.35	94.72	-3.63	61	0.246450	84	0.50	-7.3121	0.0000
Suffolk, VA 2001 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co., NC	11-May	240	18-Sep		98.84	92.88	-5.96	Ŋ	0.310547	48	0.56	-10,6950	0.0000
2001 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co. NC		240	30-Sep	30 g	99.41	95.01	-4.40	2	0.279696	48	0.53	-8.3197	0.0000
2001 Martin Co., NC Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co., NC											Topic and the second se		
Northampton Co., NC Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co. NC	7-May	240	2-Oct	30 g	97.07	91.88	-5.19	2	0.311762	48	0.56	-9 2951	0000
Southampton Co., NC Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co. NC	з-Мау	240	27-Sep	30 g	98.60	93.64	-4.96	2	0.579402	1	0.76	6.5182	0000
Suffolk, VA 2002 Martin Co., NC Northampton Co., NC Southampton Co. NC	2-May	240	26-Sep	30 g	98.63	93.06	-5.57	2	0.325643		0.57	9 7608	0000
2002 Martin Co., NC Northampton Co., NC Southampton Co. NC	9-Мау	240	28-Sep	30 g	99.08	96.04	-3.04	7	0.500575	48	0.71	-4,2967	0.0001
2002 Martin Co., NC Northampton Co., NC Southampton Co. NC										The state of the s			***************************************
Northampton Co., NC Southampton Co. NC	7-May	240	2-Oct	30 g	97.31	93.53	-3.78	2	1.039580	48	1.02	-3 7073	0 0005
Southampton Co. NC.	2-May	240	25-Sep	30 g	96.21	90.61	-5.60	2	0.990677	48	18	-5.6263	00000
A Commission of the Commission	13-May	240	30-Sep	30 g	90'66	94.82	-4.24	2	1.021480	48	1.01	4 1952	0 0001
Suffolk, VA	9-May	240	23-Sep	30 g	96.14	92.06	-4.08	2	1.587850	48	1.26	-3.2378	0.0022
NA - 11.	****	110000 Consultation of the	The second secon	7-H-100-ta-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	The state of the s	7777777					The state of the s	The second secon	
ZUUS Martin Co., NC	13-May	240	6-Oct	30 g	98.62	94.49	4.13	Ø	0.422846	44	0.65	-6.3512	0.0000
Northampton Co., NC	16-May	240	6-Oct	30 g	99.82	94.78	-5.04	α	0.233609	44	0.48	-10,4276	0.0000
Southampton Co., NC	15-May	240	7-Oct	30 g	90.08	95.26	-3.82	2	0.621145	44	0.79	-4.8469	0,000
Suttolk, VA	12-May	240	3-Oct	30 g	97.79	94.71	-3.08	c,	0.320153	44	0.57	-5,4434	0.000

Pair-wise comparisons were done using the t-test.

Replacement Sheet 200200

Table 6. A comparison of the characteristics of Wilson with Early Bunch and Perry.

Characteristic	Wilson	Early Bunch	Perry
Days to Maturity	145	127	157
Leaflet length	61	44	57
Length/width	2.5	1.98	2.3
Seed length	18	20	20
Seed width	9	11	9
Gms/100 seed	82	96	92
Oleic/linoleic	2.11	1.84	1.59
Iodine no.	93.43	100	97.8
Shelling %	71	74	74.3
Sound mature kernel	66.7		69.7
Extra large kernel	34.5		46.5
Stem height, cm	33		27

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in 1974 (5 U.S.C. 552a) and the Paperwo	a accordance with the Privacy Act of
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP	Application is required in order to de	etermine if a plant variety protection 121). Information is held confidential
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION	3. VARIETY NAME
Virginia Tech Intellectual Properties, Inc.	OR EXPERIMENTAL NUMBER	
, general troper troper of cold troper of cold trace	VT940419P	Wilson ·
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country)	5. TELEPHONE (include area code)	6. FAX (include area code)
1872 Pratt Drive	540-951-9374	540-951-5292
Suite 1625	7. PVPO NUMBER	
Blacksburg, VA 24060	20	0200200
8. Does the applicant own all rights to the variety? Mark an "X" in appropri	iale block. If no, please explain.	, YES NO
		<u></u> !
	•	
 Is the applicant (individual or company) a U.S. national or U.S. based or If no, give name of country 	ompany?	YES NO
10. Is the applicant the original owner?	O If no, please answer one of the fo	lowing:
 a. If original rights to variety were owned by individual(s), is (are) the or 	iginal owner(s) a U.S. national(s)?	
TYES D	[O If no, give name of country	
b. If original rights to variety were owned by a company(ies), is(are) the	original owner(s) a U.S. based company	?
₩ YES D	[O If no, give name of country	
11. Additional explanation on ownership (if needed, use reverse for extra sp	pace):	
		-
		-
		•
PLEASE NOTE:		
Plant variety protection can be afforded only to owners (not licensees) who meet o	ne of the following criteria:	
1. If the rights to the variety are owned by the original breeder, that person must be which affords similar protection to nationals of the U.S. for the same genus and	e a U.S. national, national of a UPOV memb species.	er country, or national of a country
If the rights to the variety are owned by the company which employed the origineember country, or owned by nationals of a country which affords similar protes.	nal breeder(s), the company must be U.S. basection to nationals of the U.S. for the same g	sed, owned by nationals of a UPOV cenus and species.
3. If the applicant is an owner who is not the original owner, both the original own	er and the applicant must meet one of the ab	oove criteria.
The original breeder/owner may be the individual or company who directed final b	reeding. See Section 41(a)(2) of the Plant V	ariety Protection Act for definition.
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